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(54) INTEGRATED EXCHANGE SYSTEM FOR VOICE DATA COPYRIGHT: (C)1999,JPO

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an exchange wherein local area network-(LAN) and a private branch of exchange are integrated.

SOLUTION: Telephone sets 11 of a private branch exchange, a trunk 12 of a telephone network relay line, data terminals 13, 14, and Internet protocol telephone sets 15, 16 are connected to an exchange 10 by transmission lines 101-106, and the data terminal 14 and the Internet protocol telephone set 15 are connected to the same line. A speech of each telephone set 11 is sent by mutual conversion between a voice signal and a signal processing protocol and a medium access control(MAC) frame by a subscriber circuit 17. The trunk 12 and the Internet protocol telephone sets 15, 16 send information in the form of the MAC frame. MAC circuits 181-186 that assemble/disassemble the MAC frame are connected to ports of a LAN switch 18 for switching the MAC frame and the switch 18 is connected to the transmission lines 101-106 via the MAC circuits 181-186.

